With the regards of
N. H. Winchell
Minneapolis,
Minnesota.
University of Minn.

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A CATALOGUE

OF THE

PLANTS OF MINNESOTA,

BY

DR. I. A. LAPHAM.

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A CATALOGUE OF THE PLANTS OF MINNESOTA.

BY I. A. LAPHAM, LL. D., OF MILWAUKEE, WIS.—1865.

[NOTE.—Dr. I. A. Lapham, whose death occurred at Milwaukee on the 14th of September, 1875, had been a prominent scientific observer and writer in the Northwest for more than twenty years. While his field was mainly within the State of Wisconsin, of which he published an accurate geological map in 1869, he made several extended tours of observation in the State of Minnesota, in connection both with public and private surveys. He was first to call attention, in a systematic way, to the remarkable effect of the Great Lakes on the climate of the country contiguous to them. A work of his on the "Antiquities of Wisconsin," was published by the Smithsonian Institute in its contributions to knowledge, in 1855. Occasional papers of his have appeared from time to time in the *American Journal of Science* and the *American Naturalist*, on the Geology, Archæology, Zoology, Botany and Climatology of the region of the Great Lakes. Upon the organization of the present geological survey of Wisconsin, he was very wisely and justly appointed its director He had contributed so largely to the working out of the natural history of the State that the minuteness of his acquaintance with it could not be acquired by a stranger in anything short of a lifetime. It is lamentable that a short-sighted economy refused, two years ago, to publish the results of his labors and of his coadjutors, and that his manuscripts, stored in the archives of he State, stifled vindicators of his industry and research, are liable to be ignored and forgotten in the further prosecution and final completion of the work.

With a generous and cosmopolitan spirit which characterized him in his scientific labors, he sent the manuscript of the following catalogue of the plants of Minnesota to the writer, soon after the initiation of the geological survey of the State, without expressing any desire as to the disposition that should be made of it. He designed it, of course, as a free contribution to the natural history of the State of Minnesota, which would be capable of producing more good in the possession of the officers of our survey than in his own. The Board of Regents accepted it with due acknowledgments, and would have published it when that branch of the survey should have been undertaken. But the death of Dr. Lapham renders it an act of justice to the memory of his generous labors to delay its publication no further.

The value of this catalogue to the State of Minnesota cannot be estimated—the result of no scientific labor can. To the development of the botany of the State it will add a very great impetus. It is the first attempt ever made to make out anything like a com-

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plete list of our native vegetation. It is the embodiment not only of the labors of Dr. Lapham himself but also of all his predecessors, in studying the botany of Minnesota. Hundreds of local amateur botanists will scan its pages. It furnishes a platform from which to begin a careful search for other species, and to which, as a check-list, to refer future examinations. The issue of this catalogue, as here published, is actually the very first and most important step toward the exhaustive study and complete development of the botany of our State. By this means, when the State survey, ordered by the Legislature of 1872, is ready for the enumeration and classification of our flora, a vast amount of information will be at hand, in the possession of the botanists of the State, stimulated and guided in their work by the systematic arrangement here presented. In this sense, then, it is a publication of the geological and natural history survey of the State, since it will redound largely to the progress of that work, to whose care Dr. Lapham at first confided it.—N. H. W.]

But very little definite information has yet been published in regard to the native vegetation of Minnesota. Mr. Thomas Say, the distinguished zoologist, and one of the founders of the Academy of Natural Sciences at Philadelphia, while connected with the expedition of Maj. Long, collected a few plants which were examined by the late Lewis Von Schweinitz, and noticed in the narrative of that expedition. Prof. D. B. Douglass, of West Point, had previously brought home a few Minnesota plants which were placed in the hands of Dr. John Torrey, of New York, and noticed in Silliman's American Journal of Science for 1822; and Dr. Douglas Houghton, of Michigan, added quite a number to the list, on the return of the party that first visited Itasca lake, and discovered the true source of the Mississippi in 1832. In the reports of Nicollet and Owen lists are given of plants collected by persons connected with their surveys.

All these lists have been consulted in the preparation of this catalogue, which, nevertheless, rests chiefly upon my own observations and collections made during several excursions into the State; one of which, in the spring of 1857, was extended to the waters of the Red River of the North.

In 1858 Mr. Robert Kennicott made collections of plants and animals in the Red River country which are preserved by the Northwestern University at Evanston, Illinois. Mr. Charles A. Hubbard collected expressly for me a large number of plants including mosses and lichens, while on a tour from Lake Superior to Lake Winnepeg and Pembina, as well as while on his return by way of St. Paul. In 1861 Mr. T. J. Hale while prosecuting geological investigations along the Mississippi river in connection with the Wisconsin State survey, made some collections of plants in Minnesota, a list of which he has kindly furnished to me. Several species are introduced upon his authority.

This catalogue shows that there are growing naturally in Minnesota 48 forest trees, 77 species of the grass family, 133 compound flowering plants, 22 coniferous trees and shrubs, 38 kinds of pod-bearing (Leguminose) plants, 23 ferns, 56 mosses and lichens; and a total number of about 850 species. It is not to be supposed, however, that this is a complete list of the plants of Minnesota; hundreds of species yet remain to reward the industry of future observers.

SERIES I. SPERMIFERÆ.

(Plants bearing seeds with an embryo, and one, two, or more cotyledons.)

Class I. *Angiospermæ.* (*Seeds inclosed.*)

Sub-Class I. *Dicotyledons.* (*Cotyledons two.*)

RANUNCULACEÆ. The Crowfoot Family.

Atragene, Linnæus.
Americana, Sims.
Clematis, Linnæus Virgin's Bower.
cylindrica, Sims.
Virginiana, Linn.
Pulsatilla, Tournefort. Pasque-flower.
Nuttalliana, Gray.
Anemone, Linnæus Wind-flower.
Virginiana, Linn.
Pennsylvanica, Linn.
nemorosa, Linn. Low Anemone.
Hepatica, Dillenius Liver-leaf.
triloba, Chaix.
Thalictrum, Tournefort. Meadow Rue.
anemonoides, Michx.
dioicum, Linn.
Ranunculus, Linnæus, Crowfoot. Butter-cup.
reptans, Linn.
Cymbalaria, Pursh.
romboideus, Goldie.
sceleratus, Linn.
Pennsylvanicus, Linn.
fascicularis, Muhl.
repens, Linn. Creeping Crowfoot.
Isopyrum, Linnæus.
biternatum, Torr. and Gray.
Caltha, Linnæus. Marsh Marygold.
palustris, Linn.
Coptis, Salisbury. Goldthread.
trifolia, Salisb.
Aquilegia. Tournefort. Columbine.
Canadensis, Linn. Wild Columbine.
Delphinium, Linnæus. Larkspur.
virescens, Nutt.
Actæa, Linnæus, Baneberry. Cohosh.
spicata, Linn. White Cohosh.

MENISPERMACEÆ. The Moonseed Family.

Menispermum, Linnæus. Moonseed.
Canadense, Linn.

BERBERIDACEÆ. The Barberry Family.

Caulophyllum, Michaux. Blue Cohosh.
thalictroides, Michx.

NELUMBIACEÆ. The Nelumbo Family.

Nelumbium, Jussieu.
luteum, Willd. Sacred bean.

CABOMBIACEÆ. The Water-Shield Family.

Brasenia, Schreber. Water Shield.
peltata, Pursh.

NYMPHÆACEÆ. The Water-Lily Family.

Nymphæa, Tournefort.
odorata, Ait. White Water-Lily.
Nuphar, Smith. Yellow Pond-Lily.
advena, Ait.

SARRACENIACEÆ. The Pitcher-Plant Family.

Sarracenia, Tournefort. Side Saddle flower.
purpurea, Linn.

PAPAVERACEÆ. The Poppy Family.

Sanguinaria, Dillenius. Bloodroot.
Canadensis, Linn.

FUMARIACEÆ. The Fumatory Family.

Dicentra, Bork. Dutchman's Breeches.
Cucullaria, DC.
Corydalis. Ventenat.
aurea, Willd.
glauca, Pursh.

CRUCIFERÆ. The Mustard Family.

Nasturtium, Robert Brown. Water Cress.
sinuatum, Nutt.
sessiliflorum, Nutt.
lacustre, Gray.
Dentaria, Linnæus. Toothwort.
laciniata, Muhl.
Cardamine, Linnæus. Bitter-Cress.
rhomboidea, DC. Spring Cress.
pratensis, Linn.
Arabis, Linn. Rock Cress.
lyrata, Linn.
hirsuta, Scop.
lævigata, DC.
Canadensis, Linn. Sickle-pod.
Turritis, Dillenius.
glabra, Linn.
Barbarea, R. Brown.
vulgaris, R. Br.
Erysimum, Linnæus. Treacle Mustard.
cheiranthoides, Linn.
Sisymbrium, Linnæus. Hedge Mustard.
officinale, Scop.
canescens, Nutt.
Sinapis, Tournefort. Mustard.
arvensis, Linn. Field Mustard.
Draba, Linnæus. Whitlow Grass.
Caroliniana, Walt.
Camelina, Crantz.
sativa, Crantz.

THLASPI, Dillenius.
arvense, Linn.
LEPIDIUM, Linnæus. Peppergrass.
Virginicum, Linn. Wild Peppergrass.
intermedium, Gray.
CAPSELLA, Ventenat. Shepherd's Purse.
Bursa-pastoris, Mœnch.

VIOLACEÆ. THE VIOLET FAMILY.

VIOLA, Linn. Violet.
blanda, Willd.
cucullata, Ait. Blue Violet.
sagittata, Ait.
delphinifolia, Nutt.
pedata, Linn.
Muhlenbergii, Torr.
Canadensis, Linn.
pubescens, Ait. Yellow Violet.

CISTACEÆ. THE ROCK-ROSE FAMILY.

HELIANTHEMUM, Tournefort. Rock-Rose.
Canadense, Michx.
HUDSONIA, Linn.
ericoides, Linn.
LECHEA, Linn. Pin-weed.
minor, Lam.

DROSERACEÆ. THE SUN-DEW FAMILY.

DROSERA, Linnæus. Sundew.
rotundifolia, Linn.
longifolia, Linn.
linearis, Goldie.

PARNASSIACEÆ. THE PARNASSIA FAMILY.

PARNASSIA, Tournefort.
Caroliniana, Michx.

HYPERICACEÆ. THE ST. JOHNSWORT FAMILY.

HYPERICUM, Linnæus. St. Johns-wort.
pyramidatum, Ait.
corymbosum, Muhl.
ellipticum, Hook.
mutilum, Linn.
Canadense, Linn.
ELODEA, Pursh. Marsh St. Johnswort.
Virginica, Nutt.

CARYOPHYLLACEÆ. THE PINK FAMILY.

VACCARIA, Medik. Cow-herb.
vulgaris, Host.
SILENE, Linnæus. Catch-fly.
stellata, Ait. Starry Campion.
antirrhina, Linn.
ALSINE, Tournefort.
Michauxii, Fenzl.
MŒRINGIA, Linnæus.
lateriflora, Linn.

STELLARIA, Linnæus. Chickweed.
longifolia, Muhl.
longipes, Goldie.
CERASTIUM, Linnæus.
arvense, Linn.
ANYCHIA, Michaux.
dichotoma, Michx.
MOLLUGO, Linnæus. Carpet Weed.
verticillata, Linn. Carpet-Weed.

PORTULACACEÆ. THE PURSLANE FAMILY.

PORTULACA, Tournefort. Purslane.
oleracea, Linn.
TALINUM, Adanson.
teretifolium, Pursh.
CLAYTONIA, Linnæus.
Virginica, Linn. Spring Beauty.

MALVACEÆ. THE MALLOW FAMILY.

CALLIRRHOE, Nuttall.
triangulata, Gray.
NAPÆA, Clayton.
dioica, Linn.
ABUTILON, Tournefort.
Avicennæ, Gærtn.

TILIACEÆ. THE LINDEN FAMILY.

TILLIA, Linnæus. Linden.
Americana Linn. Basswood.

LINACEÆ. THE FLAX FAMILY.

LINUM, Linnæus. Flax.
Boottii, Planchon.

OXALIDACEÆ. THE WOOD-SORREL FAMILY.

OXALIS, Linnæus. Wood-sorrel.
violacea, Linn.
stricta, Linn. Sheep-sorrel.

GERAIACEÆ. THE GERANIUM FAMILY.

GERANIUM, Linnæus. Cranes-bill.
maculatum, Linn.
Robertianum, Linn.

BALSAMINACEÆ. THE BALSAM FAMILY.

IMPATIENS, Linnæus. Balsam. Jewel-weed.
pallida, Nutt.
fulva, Nutt.

RUTACEÆ. THE RUE FAMILY.

ZANTOXHYLUM, Colden. Prickly Ash.
Americanum, Mill.
PTELEA, Linnæus.
trifoliata, Linn. Hoptree.

ANACARDIACEÆ. The Sumach Family.

Rhus, Linnæus. Sumach.
typhina, Linn. Staghorn Sumach.
glabra, Linn. Smooth Sumach.
venenata, DC. Poison Sumach.
Toxicodendron, Linn. Poison Ivy.

VITACEÆ. The Vine Family.

Vitis, Tournefort. Grape.
æstivalis, Michx, Summer Grape.
cordifolia, Michx. Frost Grape.
Ampelopsis, Michaux. Virginia Creeper.
quinquefolia, Michx.

RHAMNACEÆ. The Buckthorn Family.

Rhamnus, Tournefort. Buckthorn.
alnifolius, L'Her.
Ceanothus, Linnæus. New Jersey Tea.
Americanus, Linn.
ovalis, Bigelow.

CELASTRACEÆ. The Spindle Tree Family.

Celatrus, Linnæus.
scandens, Linn. Bitter-Sweet.
Euonymus, Tournefort. Spindle-Tree.
atropurpureus, Jacq. Wauhoo.

SAPINDACEÆ. The Soapberry Family.

Staphylea, Linnæus. Bladdernut.
trifolia, Linn.
Acer, Tournefort. Maple.
spicatum, Lam.
saccharinum, Wang. Sugar-Maple.
dasycarpum, Ehrh Silver-Maple.
rubrum, Linn. Red-Maple.
Negundo, Moench. Box-Elder.
aceroides, Moench.

POLYGALACEÆ. The Milkwort Family.

Polygala, Tournefort. Milkwort.
sanguinea, Linn.
cruciata, Linn.
verticillata, Linn.
Senega, Linn. Seneca Snake-Root.
polygama, Waltr.

LEGUMINOSÆ. The Pea Family.

Lupinus, Tournefort. Lupine.
perennis, Linn.
Trifolium, Linn. Clover.
repens, Linn. White Clover.
Glycyrrhiza, Tournefort. Liquorice.
lepidota, Nutt.

PSORALEA, Linnæus.
argophylla, Pursh.
brachiata, Douglas. Prairie Turnip.
esculenta, Pursh. "Pomme de Prairie."
PETALOSTEMON, Michaux.
violaceum, Michx.
candidum, Michx.
villosum, Nutt.
AMORPHA, Linnæus. False Indigo.
fruticosa, Linn.
canescens, Nutt. Lead Plant.
nana, Nutt.
TEPHROSIA, Persoon. Hoary Pea.
Virginiana, Pers.
ASTRAGALUS, Linnæus. Milk-vetch.
caryocarpus, Ker. Ground-plum.
Canadensis, Linn.
HEDYSARUM, Tournefort.
boreale, Nutt.
OXYTROPIS, De Candolle.
Lamberti, Pursh.
splendens, Doug.
DESMODIUM, De Candolle. Tick-Trefoil.
nudiflorum, DC.
acuminatum, DC.
canescens, DC.
cuspidatum, Torr. and Gray.
Dillenii, Darlington.
Canadense, DC.
LESPEDEZA, Michaux. Bush-clover.
procumbens, Michx.
capitata, Michx.
VICIA, Tournefort. Vetch.
Caroliniana, Walt.
Americana, Muhl.
LATHYRUS, Linnæus.
venosus, Muhl.
ochroleucus, Hook.
palustris, Linn.
PHASEOLUS, Linnæus. Kidney Bean.
diversifolius, Pers.
pauciflorus, Benth.
APIOS, Bœrh. Ground-nut.
tuberosa, Mœnch.
AMPHICARPÆA, Elliott.
monoica, Nutt. Wild Bean.
BAPTISIA, Ventenat. False Indigo.
leucantha, Torr. and Gray.
leucophæa, Nutt.
CASSIA, Linnæus.
Chamæcrista, L.

ROSACAÆ. THE ROSE FAMILY.

PRUNUS, Linnæus. Plum.
Americana Marsh. Wild plum.
pumila, Linn. Dwarf cherry.
Pennsylvanica, Linn. Bird cherry.
Virginiana, Linn. Choke cherry.
serotina, Ehrh. Black cherry
SPIRÆA, Linnæus.
opulifolia, Linn. Nine Bark.
salicifolia, Linn. Meadow-Sweet.
tomentosa, Linn. Hard-Hack.

AGRIMONIA, Tournefort.
Eupatoria, Linn.
GEUM, Linnæus.
album, Gmelin.
Virginianum, Linn.
macrophyllum, Willd.
strictum, Ait.
triflorum, Pursh.
POTENTILLA, Linnæus. Five-finger.
Norvegica, Linn.
paradoxa, Nutt.
Canadensis, Linn. Five-finger.
Pennsylvanica, Linn.
arguta, Pursh.
Anserina, Linn.
fruticosa, Linn.
tridenta, Ait.
palustris, Scop.
FRAGARIA, Tournefort. Strawberry.
Virginiana, Ehrh. Wild Strawberry.
vesca, Linn.
DALIBARDA, Linnæus.
repens, Linn.
RUBUS, Linnæus. Bramble.
Nutkanus, Moçino.
triflorus, Richardson.
strigosus, Michx. Red Raspberry.
occidentalis, Linn. Black Raspberry.
villosus, Ait. Blackberry.
Canadensis, Linn. Low Blackberry.
hispidus, Linn.
ROSA, Tournefort. Rose.
lucida, Ehrh. Wild Rose.
blanda, Ait.
CRATÆGUS, Linnæus. Hawthorn.
coccinea, Linn. Scarlet-fruited Thorn.
tomentosa, Linn.
PYRUS, Linnæus. Apple.
coronaria, Linn. Crab-Apple.
arbutifolia, Linn. Choke-berry.
Americana, DC. Mountain-Ash.
AMELANCHIER, Medic.
Canadensis, Torr. and Gray. June Berry.

LYTHRACEÆ. THE LOOSESTRIFE FAMILY.

LYTHRUM, Linnæus. Loosestrife.
alatum, Pursh.

ONAGRACEÆ. THE EVENING PRIMROSE FAMILY.

EPHILOBIUM, Linnæus. Willow-herb.
angustifolium, Linn.
palustre, Linn.
molle, Torr.
coloratum, Muhl.
ÆNOTHERA, Linnæus. Evening Primrose
biennis, Linn.
rhombipetala, Nutt.
serrulata, Nutt.
albicaulis, Nutt.
pumila, Linn.

GAURA, Linnæus.
coccinea, Nutt.
LUDWIGIA, Linnæus.
polycarpa, Short and Peter.
palustris, Elliott.
CIRCÆA, Tournefort. Enchanter's Night-Shade.
Lutetiana, Linn.
alpina, Linn.
MYRIOPHYLLUM, Vaillant. Water Milfoil.
spicatum, Linn.
verticillatum, Linn.
heterophyllum, Michx.
HIPPURIS, Linnæus.
vulgaris, Linn.

CACTACEÆ. THE CACTUS FAMILY.

OPUNTIA, Tournefort. Prickly Pear.
vulgaris, Mill.

GROSSULACEÆ. THE GOOSEBERRY FAMILY.

RIBES, Linnæus.
Cynosbati, Linn Wild Prickly Gooseberry.
hirtellum, Michx.
rotundifolium, Michx. Swamp Gooseberry.
lacustre, Poir Swamp Gooseberry.
prostratum, L'Her.
Missouriense, Nutt.
floridum, Linn. Wild Black Currant.
rubrum, Linn. Wild Red Currant.

CUCURBITACEÆ. THE CUCUMBER FAMILY.

SICYOS, Linnæus.
angulatus, Linn.
ECHINOCYSTIS, Torrey and Gray. Wild Cucumber.
lobata, Torrey and Gray.

CRASSULACEÆ. THE HOUSE-LEEK FAMILY.

PENTHORIUM, Gronovius.
sedoides, Linn.

SAXIFRAGACEÆ. THE SAXIFRAGE FAMILY.

SAXIFRAGE, Linnæus.
Virginiensis, Michx.
Pennsylvanica, Linn.
HEUCHERA, Linnæus. Alum-root.
hispida, Pursh.
Richardsoni, R. Brown.
MITELLA, Tournefort.
diphylla, Linn. Twin-Leaf.
TIARELLA, Linnæus. False Mitre-wort.
cordifolia, Linn.
CHRYSOSPLENIUM, Tournefort.
Americanum, Schwein.

HAMAMELACEÆ. THE WITCH-HAZEL FAMILY.

HAMAMELIS, Linnæus. Witch-Hazel.
Virginica, Linn.

UMBELLIFERÆ. The Umbel-bearing Family

Hydrocotyle, Tournefort.
Americanum, Linn.
Sanicula, Tournefort.
Canadensis, Linn.
Marylandica, Linn. Sanicle.
Eryngium, Tournefort. Button Snake-root.
yuccæfolium, Michx.
Polytænia, DeCandolle.
Nuttallii, DC.
Heracleum, Linnæus.
lanatum, Michx. Cow Parsnip.
Pastinaca, Tournefort. Wild Parsnip
sativa, Linn.
Archemora, DeCahdolle. Cow-bane.
rigida, DC.
Cymopterus, Rafinesque.
glomeratus, DC.
Archangelica, Hoffmann.
atropurpurea, Hoffm.
Thaspium, Nuttall.
barbinode, Nutt.
aureum, Nutt.
trifoliatum, Gray.
Zizia, DeCandolle.
integerrima, DC.
Cicuta, Linnæus. Water Hemlock.
maculata, Linn.
bulbifera, Linn.
Sium, Linnæus. Water Parsnip.
lineare, Michx.
Cryptotænia, DeCandolle. Honeywort.
Canadensis, DC.
Osmorrhiza, Rafinesque. Sweet Cicely.
longistylis, DC.
brevistylis, DC.

ARALIACEÆ. The Ginseng Family.

Aralia, Tournefort.
hispida, Michx.
nudicaulis, Linn. Wild Sarsaparilla.

CORNACEÆ. The Dogwood Family.

Cornus, Tournefort. Dogwood.
Canadensis, Linn.
circinata, L'Her.
sericea, Linn.
stolonifera, Michx. Red-twigged Dogwood.
paniculata, L'Her.
alternifolia, Linn.

CAPRIFOLIACEÆ. The Honeysuckle Family.

Linnæa, Gronovius. Twin flower.
borealis, Gronov.
Symphoricarpus, Dillenius.
occidentalis, R. Brown. Wolf-berry.
racemosus, Michx. Snow berry.

LONICERA, Linnæus. Honey-suckle.
flava, Sims. Yellow Honey-suckle.
parviflora, Lam.
hirsuta, Eaton.
ciliata, Muhl.
DIERVILLA, Tournefort. Bush Honey-suckle.
Canadensis, Linn.
TRIOSTEUM, Linnæus. Horse Gentian.
perfoliatum, Linn.
SAMBUCUS, Tournefort. Elder.
Canadensis, Linn.
pubens, Michx.
VIBURNUM, Linnæus.
Lentago, Linn. Sheepberry.
dentatum, Linn. Arrow-wood.
pubescens, Pursh.
Opulus, Linn. High-bush Cranberry.

RUBIACEÆ. The Madder Family.

GALIUM, Linnæus.
Aparine, Linn. Goose Grass.
asprellum, Michx.
concinnum, Torr. and Gray.
trifidum, Linn.
triflorum, Michx.
circæzans, Michx.
boreale, Linn.
CEPHALANTHUS, Linnæus. Button-Bush.
occidentalis, Linn.
MITCHELLA, Linn. Partridge-Berry.
repens, Linn.
OLDENLANDIA, Plumier.
purpurea, Gray.

VALERIANACEÆ. The Valerian Family.

VALERIANA, Tournefort.
edulis, Nutt.
FEDIA, Gærtner.
radiata, Michx.

COMPOSITÆ. The Composite Family.

VERNONIA, Shreber, Iron-Weed.
fasciculata, Michx.
LIATRIS, Schreber,
cylindracea, Michx.
scariosa, Willd.
spicata, Willd.
pycnostachya, Michx.
punctata, Hook.
KUHNIA, Linnæus.
eupatorioides, Linn.
EUPATORIUM, Tournefort.
purpureum, Linn.
altissimum, Linn.
perfoliatum, Linn. Boneset.
serotinum, Mich.
ageratoides, Linn.

ASTER, Linnæus. Starwort.
macrophyllus, Linn.
sericeus, Vent.
lævis, Linn.
azureus, Lindl.
Shortii, Boott.
undulatus, Linn.
cordifolius, Linn.
sagittifolius, Willd.
multiflorus, Ait.
Tradescanti, Linn.
miser, Linn.
simplex, Willd.
æstivus, Ait.
prælatus, Poir.
Novi-Belgii, Linn.
puniceus, Linn.
prenanthoids, Muhl.
oblongifolius, Nutt.
Novæ-Angliæ, Linn.
ptarmicoides, Torr. and Gray.
angustus, Torr. and Gray.
ERIGERON, Linnæus. Fleabane.
Canadensis, Linn. Butterweed.
bellidifolium, Muhl.
Philadelphicum, Linn.
glabellum, Nutt.
strigosum, Muhl.
DIPLOPAPPUS, Cassini.
linariifolius, Hook.
umbellatus, Torr. and Gray.
BOLTONIA, L'Heritier.
glastifolia, L'Hert.
SOLIDAGO, Linnæus. Golden-rod.
bicolor, Linn.
latifolia, Linn.
puberula, Nutt.
stricta, Ait.
speciosa, Nutt.
Virga-aurea, Linn.
rigida, Linn.
Riddellii, Frank.
neglecta, Torr. and Gray.
patula, Muhl.
arguta, Ait.
erecta, Torr. and Gray.
ulmifolia, Muhl.
nemoralis, Ait.
Missouriensis, Nutt.
Canadensis, Linn.
serotina, Ait.
gigantea, Ait.
lanceolata, Linn.
APLOPAPPUS, Cassini.
spinulosus, DC.
GRINDELIA, Willdenow.
squarrosa, Dunal.
CHRYSOPSIS, Nuttall. Golden-Aster.
villosa, Nutt.
POLYMNIA, Linnæus. Leaf-cup.
Canadensis, Linn.

SILPHIUM, Linnæus.
laciniatum, Linn. Compass-Plant.
terebinthinaceum, Linn. Prairie Dock.
integrifolium, Michx.
perfoliatum, Linn. Cup-Plant.
PARTHENIUM, Linnæus.
integrifolium, Linn.
AMBROSIA, Tournefort. Rag-weed.
trifida, Linn.
artemisiæfolia, Linn. Hog-weed.
psilostachya, DC.
XANTHIUM, Tournefort. Cocklebur.
strumarium, Linn.
HELIOPSIS, Persoon. Ox-eye.
lævis, Pers.
ECHINACEA, Mœnch.
angustifolia, DC.
RUDBECKIA, Linnæus. Coneflower.
laciniata, Linn.
subtomentosa, Pursh.
hirta, Linn.
LEPACHYS, Rafinesque.
pinnata, Torr. and Gray.
columnaris, Torr. and Gray.
HELIANTHUS, Linnæus. Sunflower.
rigidus, Desf.
occidentalis, Riddell.
giganteus, Linn.
grosse-serratus, Martens.
tomentosus, Michx.
strumosus, Linn.
trachelifolius, Willd.
decapetalus, Linn.
COREOPSIS, Linnæus. Tick-seed.
trichosperma, Michx.
palmata, Nutt.
lanceolata, Linn.
BIDENS, Linnæus.
frondosa, Linn. Beggar-Ticks.
connata, Muhl.
cernua, Linn.
chrysanthemoides, Michx.
Beckii, Torr.
GAILLARDIA, Fougeroux.
aristata, Pursh.
HELENIUM, Linnæus False Sunflower.
autumnale, Linn. Sneeze-weed.
ACHILLEA, Linnæus. Mil-foil.
Millefolium, Linn.
ARTEMISIA, Linnæus. Wormwood.
Canadensis, Michx.
caudata, Michx.
Ludoviciana, Nutt.
dracunculoides, Pursh.
frigida, Willd.
biennis, Willd.
Absinthium, Linn.
ANTENNARIA, Gærtner. Everlasting.
margaritacea, R. Br.
plantaginifolia, Hook.
GNAPHALIUM, Linnæus.
polycephalum, Michx.
uliginosum, Linn.

ERECHTHITES, Rafinesque. Fire-weed.
hieracifolia, Raf.
CACALIA, Linnæus.
reniformis, Muhl.
tuberosa, Nutt.
SENECIO, Linnæus. Groundsel.
integerrimus, Nutt.
aureus, Linn. Ragwort.
CIRSIUM, Tournefort. Thistle.
altissimum, Spreng.
muticum, Michx. Swamp Thistle.
discolor, Spreng.
CYNTHIA, Don.
Virginica, Don.
HIERACIUM, Tournefort. Hawk-weed.
Canadense, Michx.
scabrum, Michx.
longipilum, Torrey.
NABALUS, Cassini.
albus, Hook.
racemosus, Hook.
asper, Torrey and Gray.
LYGODESMIA, Don.
juncea, Don.
TROXIMON, Nutt.
cuspidatum, Pursh.
TARAXACUM, Haller. Dandelion.
Dens-leonis, Desf.
LACTUCA, Tournefort. Lettuce.
elongata, Muhl.
MULGEDIUM, Cassini. Blue Lettuce.
Floridanum, DC.
leucophæum, DC.
pulchellum, Nutt.
SONCHUS, Linnæus. Sow-thistle.
asper, Vill.

LOBELIACEÆ. THE LOBELIA FAMILY.

LOBELIA, Linnæus.
cardinalis, Linn. Cardinal Flower.
syphilitica, Linn. Blue Lobelia.
inflata, Linn. Indian Tobacco.
spicata, Lam.
Kalmii, Linn.

CAMPANULACEÆ. THE BELL-FLOWER FAMILY.

CAMPANULA, Tournefort. Bell-flower.
rotundifolia, Linn.
aparinoides, Pursh.
Americana, Linn.
SPECULARIA, Heist.
perfoliata, A. DC.

ERICACEÆ. THE HEATH FAMILY.

GAYLUSSACIA, Humb. Bomp. and Kunth.
resinosa, Torrey and Gray. Black Huckleberry.
VACCINIUM, Linnæus. Cranberry.
Oxycoccus, Linn. Small Cranberry.
macrocarpon, Ait. Cranberry.
cæspitosum, Michx.
Canadense, Kalm.
corymbosum, Linn.

CHIOGENES, Salisbury.
hispidula, Torrey and Gray.
ARCTOSTAPHYLOS, Adanson.
Uva-ursi, Spreng. Bearberry.
EPIGÆA, Linnæus.
repens, Linn
GAULTHERIA, Kalm.
procumbens, Linn.
CASSANDRA, Don.
calyculata, Don.
ANDROMEDA, Linnæus.
polifolia, Linn.
LEDUM, Linnæus. Labrador Tea.
latifolium, Ait.
PYROLA, Linnæus.
rotundifolia, Linn.
elliptica, Nutt.
secunda, Linn.
CHIMAPHILA, Pursh.
umbellata, Nutt.

AQUIFOLIACEÆ. THE HOLLY TRIBE.

ILEX, Linnæus. Holly.
verticillata, Gray.
NEMOPANTHES, Rafinesque.
Canadensis, DC.

PLANTAGINACEÆ. THE PLANTAIN FAMILY.

PLANTAGO, Linnæus. Plantain.
major, Linn.
Patagonica, Jacq., var. graphaloides, Gray.

PRIMULACEÆ. THE PRIMROSE FAMILY.

PRIMULA, Linnæus. Primrose.
Mistassinica, Michx.
ANDROSACE, Tournefort.
occidentalis, Linn.
DODECATHEON, Linnæus.
Meadia, Linn. Shooting-star.
TRIENTALIS, Linnæus.
Americana, Pursh.
LYSIMACHIA, Linnæus. Loosestrife.
stricta, Ait.
quadrifolia, Linn.
ciliata, Linn.
laceolata, Walt.
longifolia, Pursh.
NAUMBURGIA, Mœnch.
thyrsiflora, Reichenb.

LENTIBULACEÆ. THE BLADDERWORT FAMILY.

UTRICULARIA, Linnæus. Bladderwort.
vulgaris, Linn.
minor, Linn.
intermedia, Hayne.

OROBANCHACEÆ. THE BROOM-RAPE FAMILY.

PHELIPÆA, Tournefort. Broom-Rape.
Ludoviciana, Don.

APHYLLON, Mitchell.
fasciculatum. Torr. and Gray.

SCROPHULARIACEÆ. THE FIGWORT FAMILY.

VERBASCUM, Linnæus. Mullein.
Thapsus, Linn. Common Mullein.
Blattaria, Linn. Moth Mullein.
LINARIA, Tournefort. Toad-flax.
Canadensis, Spreng.
SCROPULARIA, Tournefort. Figwort.
nodosa, Linn.
CHELONE, Tournefort. Snake-Head.
glabra, Linn.
PENSTEMON, Mitchell. Beard-Tongue.
pubescens, Solander.
grandiflorus, Fraser.
MIMULUS, Linnæus. Monkey-Flower.
ringens, Linn.
Jamesii, Torr.
GRATIOLA, Lennæus. Hedge Hyssop.
Virginiana, Linn.
ILYSANTHES, Raflnesque.
gratioloides, Benth. False Pimpernel.
SYNTHYRIS, Benth.
Houghtoniana, Benth.
VERONICA, Linnæus. Speedwell.
Virginica, Linn.
Americana, Schweinitz.
Anagallis, Linn.
scutellata, Linn.
GERARDIA, Linnæus.
purpurea Linn.
aspera, Dougl.
tenuifolia, Vahl.
setacea, Walt.
quercifolia, Pursh.
pedicularia, Linn.
CASTILLEIA, Mutis. Painted-Cup.
pallida, Kunth. Mountain Painted-Cup.
coccinea, Spreng.
sessiliflora, Pursh.
PEDICULARIS, Tournefort. Lousewort.
Canadensis, Linn.
lanceolata, Michx.
MELAMPYRUM, Tournefort. Cow-Wheat.
Americanum, Michx.
ORTHOCARPUS, Nuttall.
lutens, Nutt.

VERBENACEÆ. THE VERBENA FAMILY.

VERBENA, Linnæus. Vervain.
angustifolia, Michx.
hastata, Linn. Blue Vervain.
utricifolia, Linn.
stricta, Vent.
bracteosa, Michx.
PHRYMA, Linnæus. Lop-seed.
Leptostachya, Linn.

LABIATÆ. The Mint Family.

Teucrium, Linnæus. Germander.
Canadensis, Linn.
Isanthus, Michaux. False Pennyroyal.
cæruleus, Michx.
Mentha, Linnæus. Mint.
Canadensis, Linn. Wild Mint.
Lycopus, Linnæus. Water Horehound.
Virginicus, Linn. Bugle-weed.
Europœus, Linn.
Pycnanthemum, Michaux. Mountain Mint.
lanceolatum, Pursh.
Hedeoma, Persoon. Mock Pennyroyal.
hispida, Pursh.
Monarda, Linnæus. Horse Mint.
fistulosa, Linn. Wild Bergamot.
Blephilia, Rafinesque.
ciliata, Raf.
hirsuta, Benth.
Lophanthus, Bentham. Giant Hyssop.
nepetoides, Benth.
scrophulariæfolius, Benth.
anisatus, Benth. Anise Hyssop.
Nepeta, Linnæus. Catnip.
Cataria, Linn.
Dracocephalum, Linnæus. Dragon-head.
parviflorum, Nutt.
Physostegia, Bentham. False Dragon-head.
Virginiana, Benth.
Brunella, Tournefort. Self-heal.
vulgaris, Linn.
Scutellaria, Linnæus. Skull-cap.
versicolor, Nutt.
parvula, Michx.
galericulata, Linn.
lateriflora, Linn.
Galeopsis, Linnæus.
tetrahit, Linn.
Stachys, Linnæus. Hedge Nettle.
palustris, Linn.

BORRAGINACEÆ. The Borage Family.

Onosmodium, Michx. False Gromwell.
Virginianum, DC.
molle, Michx.
Lithospermum, Tournefort. Gromwell.
latifolium, Michx.
hirtum, Lehm.
conspicuum, Spreng.
longiflorum, Spreng.
Mertensia, Roth. Smooth Lung-wort.
corymbosa, Don.
Cynoglossum, Tournefort. Hound's tongue.
Virginicum, Linn.
Morrisonii, DC. Beggar's Lice.

HYDROPHYLLACEÆ. The Water Leaf Family.

Hydrophyllum, Linnæus. Water-leaf.
Virginicum, Linn.

POLEMONIACEÆ. Polemonium Family.

Polemonium, Tournefort. Greek Valerian.
reptans, Linn. Jacob's Ladder.
Phlox, Linnæus.
glaberrima, Linn.
pilosa, Linn.
divaricata, Linn.

CONVOLVULACEÆ. Convolvulus Family.

Calystegia, Robert Brown. Bracted Bindweed.
sepium, R. Br. Hedge Bindweed.
Cuscuta, Tournefort. Dodder. Love-vine.
tenuiflora, Englem.
Gronovii, Willd.

SOLANACEÆ. The Nightshade Family.

Solanum, Tournefort. Nightshade.
nigrum, Linn.
Physalis, Linnæus. Ground Cherry.
angulata, Linn.
pubescens, Linn.
viscosa, Linn.

GENTIANACEÆ. The Gentian Family.

Gentiana, Linnæus. Gentian.
crinita, Frœl. Fringed Gentian.
detonsa, Fries. Small Fringed Gentian.
alba, Muhl. White Gentian.
Andrewsii, Griseb.
Saponaria, Linn.
puberula, Michx.
affinis, Griseb.
Menyanthes, Tournefort. Buckbean.
trifoliata, Linn.

APOCYNACEÆ. The Dogbane Family.

Apocynum, Tournefort. Indian Hemp.
androsæmifolium, Linn.
cannabinum, Linn.

ASCLEPIADACEÆ. The Milkweed Family.

Asclepias, Linnæus. Milkweed.
Cornuti, Decaisne.
phytolaccoides, Pursh.
Nuttaliana, Torr. (A. Vaseyi, Carey.)
obtusifolia, Michx.
incarnata, Linn.
tuberosa, Linn. Butterfly-weed.
verticillata, Linn.
Acerates, Elliott. Green Milkweed.
viridiflora, Elliott.
monocephala, Lapham.
longifolia, Ell.

OLEACEÆ. The Olive Family.

Fraxinus, Tournefort. Ash.
Americana, Linn. White Ash.
sambucifolia, Lam. Black Ash.

ARISTOLOCHIACEÆ. The Birthwort Family.

Asarum, Tournefort. Wild Ginger.
Canadense, Linn. Colt's Foot.

NYCTAGINACEÆ. The Four-O'Clock Family.

Oxybaphus, Vahl.
nyctagineus, Sweet.
angustifolius, Torr.

CHENOPODIACEÆ. The Goosefoot Family.

Chenopodium, Linnæus. Pigweed.
hybridum, Linn.
Blitum, Tournefort. Blite.
capitatum, Linn. Strawberry Blite.
Salicornia, Tournefort. Glasswort.
herbacea, Linn.
Chenopodina, Moquin. Sea Goosefoot.
maritima, Moq.

AMARANTACEÆ. The Amaranth Family.

Amarantus, Tournefort. Amaranth.
hybridus, Linn.
Montelia, Moquin.
tamariscina, Gray.
Acnida, Linnæus. Water Hemp.
cannabinum, Linn.
Frœlichia, Mœnch.
Floridana, Moquin.

POLYGONACEÆ. The Buckwheat Family.

Polygonum, Linnæus. Knotweed.
amphibium, Linn.
nodosum, Pers.
Pennsylvanicum, Linn.
Persicaria, Linn. Lady's Thumb.
hydropiperoides, Michx.
aviculare, Linn. Knot-Grass.
ramosissimum, Michx.
tenue, Michx.
articulatum, Linn.
Virginianum, Linn.
saggittatum, Linn.
dumetorum, Linn.
Rumex, Linnæus. Dock Sorrel.
altissimus, Wood. Tall Dock.
Hydrolapathum, Huds.
maritimus, Linn. Golden Dock.

THYMELEACEÆ. The Mezereum Family.

Dirca, Linnæus. Leatherwood.
palustris, Linn.

ELÆAGNACEÆ. The Oleaster Family.

ELÆAGNUS, Linnæus.
argentea. Pursh. Silver-berry
SHEPHERDIA, Nuttall
Canadensis, Nutt.
argentea, Nutt. Buffalo-berry.

SANTALACEÆ. The Sandal-wood Family.

COMMANDRA, Nuttall. Bastard Toad Flax.
umbellata, Nutt.

CERATOPHYLLACEÆ. The Honewort Family.

CERATOPHYLLUM, Linnæus. Honewort.
demersum, Linn.

CALLITRICHACEÆ. The Water Starwort Family.

CALLITRICHE, Linnæus. Water Starwort.
verna, Linn.

EUPHORBIACEÆ. The Spurge Family.

EUPHORBIA, Linnæus. Spurge.
polygonifolia, Linn.
Geyeri, Engelm.
maculata, Linn.
hypericifolia, Linn.
marginata, Pursh.
cyathophora, Jacq.
corollata, Linn.
ACALYPHA, Linnæus. Three-seeded Mercury.
Virginica, Linn.

URTICACEÆ. The Nettle Family.

ULMUS, Linnæus. Elm.
fulva, Michx Slippery Elm.
Americana, Linn. White Elm.
CELTIS, Tournefort. Hackberry. Nettle-tree.
occidentalis, Linn. Sugar-berry.
URTICA, Tournefort. Nettle.
gracilis, Ait.
LAPORTEA, Gaudich. Wood Nettle.
Canadensis, Gaud.
PILEA, Lindley. Richweed.
pumila, Lindley.
BŒHMERIA, Jacquin. False Nettle.
cylindrica, Willd.
PARIETARIA, Tournefort.
Pennsylvanica, Muhl. Pillitory.
HUMULUS, Linnæus. Hop.
lupulus, Linn.

PLATANACEÆ. The Plane Tree Family.

PLATANUS, Linnæus. Plane-tree. Buttonwood.
occidentalis, Linn. Sycamore.

JUGLANDACEÆ. The Walnut Family.

Juglans, Linnæus. Walnut.
cinerea, Linn. Butternut.
nigra, Linn. Black Walnut.
Carya, Nuttall. Hickory.
alba, Nutt. Shag-Bark Hickory.
glabra, Torr. Pig-nut or Broom Hickory.
amara, Nutt. Bitter-nut or Swamp Hickory.

CUPULIFERÆ. The Cup-Bearing Family.

Quercus, Linnæus. Oak.
macrocarpa, Michx. Burr Oak.
alba, Linnæus. White Oak.
Castanea, Willd. Yellow Chestnut Oak.
rubra, Linn. Red Oak.
palustris, Du Roi. Pin Oak.
Corylus, Tournefort. Hazel-nut.
Americana, Waltr. Wild Hazel-nut.
rostrata, Ait. Beaked Hazel-nut.
Carpinus, Linnæus. Hornbeam, Ironwood.
Americana, Michx. Water Beech.
Ostrya, Micheli Hop Hornbeam.
Virginica, Willd. Lever-wood.

BETULACEÆ. The Birch Family.

Betula, Tournefort. Birch.
papyracea, Ait. Canoe Birch.
nigra, Linn. Red Birch.
pumila, Linn. Low Birch.
Alnus, Tournefort. Alder.
incana, Willd. Speckled Alder.
serrulata, Ait. Smooth Alder.

SALICACEÆ. The Willow Family.

Salix, Tournefort. Willow.
candida, Willd. Hoary Willow.
humilis, Marshall. Low Bush Willow.
tristis, Ait. Dwarf Gray Willow.
discolor, Muh. Glaucous Willow.
cordata, Muhl. Heart-leaved Willow.
fluviatilis, Nutt.
rostrata, Richardson. Long-Beaked Willow.
nigra, Marshall. Black Willow.
lucida, Muhl. Shining Willow.
longifolia, Muhl. Long-leaved Willow.
pedicellaris, Pursh. Stalk-fruited Willow.
Populus, Tournefort. Poplar.
tremuloides, Michx. American Aspen.
grandidentata, Michx. Large-toothed Poplar.
monilifea, Ait. Cottonwood.
balsamifera, Linn. Balsam Poplar.

Sub-Class II. *Monocotyledons.* (*With but one Cotyledon.*)

ARACEÆ. The Arum Family.

Arisæma, Martius. Indian Turnip.
triphyllum, Torr.

CALLA, Linnæus.
palustris, Linn.

TYPHACEÆ. THE CAT-TAIL FAMILY.

TYPHA, Tournefort. Cat-tail Flag.
latifolia. Linn. Reed Mace.
SPARGANIUM, Tournefort. Bur-Reed.
simplex, Hudson.
natans, Linn.
angustifolium, Michx.

LEMNACEÆ. THE DUCK-WEED FAMILY.

LEMNA, Linnæus. Duck's meat.
trisulca, Linn.
minor, Linn.
polyrrhiza, Linn,

NAIADACEÆ. THE POND-WEED FAMILY.

POTAMOGETUM, Tournefort. Pondweed.
pusillus, Linn.
pauciflorus, Pursh.
compressus, Linn.
lucens, Linn.
natans, Linn.

ALISMACEÆ. THE WATER PLANTAIN FAMILY.

TRIGLOCHIN, Linnæus. Arrow Grass.
maritimum, Linn.
SCHEUCHZERIA, Linn.
palustris, Linn.
ALISMA, Linnæus. Water-Plantain.
Plantago, Linn.
SAGITTARIA, Linnæus. Arrow-Head.
subulatus, Engelmann.
variabilis, Engelmann.

ORCHIDACEÆ. THE ORCHIS FAMILY.

ORCHIS, Linnæus.
Spectabilis, Linn. Showy Orchis.
GYMNADENIA, R. Brown.
tridentata. Lindl.
PLATANTHERA, Richard. False Orchis.
Hookeri, Lindl.
bracteata, Torr.
hyperborea, Lindl.
dilatata, Lindl.
leucophæa, Nutt.
psycodes, Gray.
SPIRANTHES, Richard. Lady's Tresses.
gracilis, Bigelow.
latifolia, Torr.
cernua, Richard.
POGONIA, Jussieu.
ophioglossoides, Nutt.
CALOPOGON, Robert Brown.
pulchellus, R. Br.

Microstylis, Nuttall.
monophylla, Lindl.
ophioglossides. Nutt. Adder's Tongue.
Corallorhiza, Haller. Coral-root.
multiflora, Nutt.
Macræi, Gray.
Cypripedium, Linnæus, Lady's Slipper.
pubescens, Willd. Yellow Lady's Slipper.
candidum, Muhl. White Lady's Slipper.
spectabile, Swartz. Moccasin Flower.
acaule, Ait.

AMARYLLIDACEÆ. The Amaryllis Family.

Hypoxys, Linnæus, Star-grass.
erecta, Linn.

HÆMODORACEÆ. The Bloodwort Family.

Aletris, Linnæus. Colic-root.
farinosa, Linn.

IRIDACEÆ. The Iris Family.

Iris, Linnæus. Flower-de-Luce.
versicolor, Linn. Blue Flag.
Sisyrinchium, Linn. Blue eyed-grass.
Bermudiana, Linn.

DIOSCOREACEÆ. The Yam Family.

Dioscorea, Plumier. Yam.
villosa, Linn. China Root.

SMILACEÆ. The Smilax Family.

Smilax, Tournefort. Catbrier.
rotundifolia, Linn. Greenbrier.
herbacea, Linn. Carrion Flower.
Trillium, Linnæus. Three-leaved Night-Shade.
cernuum, Linn. Wake-Robin.
erectum, Linn. Purple-Trillium.
Medeola, Gronovius. Indian Cucumber-root.
Virginica, Linn.

LILIACEÆ. The Lily Family.

Polygonatum, Tournefort. Solomon's Seal.
biflorum, Ell.
Smilacina, Desfontaines. False Solomon's Seal.
racemosa, Desf. False Spikenard.
stellata, Desf.
bifolia, Ker.
Clintonia, Rafinesque.
borealis, Raf.
Allium, Linnæus. Onion.
tricoccum, Ait. Leek.
cernuum, Roth. Wild Onion.
Lilium, Linnæus. Lily.
Philadelphicum, Linn. Orange Red Lily.
Canadense, Linn. Nodding Lily.
Erythronium, Linnæus. Dog's-tooth Violet.
albidum, Nutt.

MELANTHACEÆ. The Colchicum Family.

Uvularia, Linnæus. Bellwort.
grandiflora, Smith.
sessilifolia, Linn.
Zygadenus, Michx.
glaucus, Nutt.
Tofieldia, Hudson. False Asphodel.
glutinosa, Willd.

JUNCACEÆ. The Rush Family.

Juncus, Linnæus. Rush.
effusus, Linn.
Balticus, Willd.
filiformis, Linn.
scirpoides, Lam.
paradoxus, E. Meyer.
nodosus, Linn.
Conradi, Tuckerm.
tenuis, Willd.

PONTEDERIACEÆ. The Pickerel-weed Family.

Schollera, Schreber. Water Stargrass.
graminea, Willd.

COMMELYNACEÆ. The Spiderwort Family.

Tradescantia, Linnæus. Spiderwort.
Virginica, Linn.

CYPERACEÆ. The Sedge-grass Family.

Cyperus, Linnæus.
diandrus, Torrey.
erythrorhizos, Muhl.
Michauxianus, Schultes.
strigosus, Linn.
inflexus, Muhl.
alterniflorus, Schw.
phymatodes, Muhl.
Schweinitzii, Torr.
filiculmis, Vahl.
Dulichium, Richard.
spathaceum, Pers.
Hemicarpha, Nees.
subsquarrosa, Nees.
Eleocharis, R. Brown. Spike-rush.
palustris, R. Br.
intermedia, Schultes.
tenuis, Schultes.
acicularis, R. Br.
Scirpus, Linnæus. Bulrush.
Torreyi, Olney.
lacustris, Linn. Bulrush.
debilis, Pursh.
fluviatilis, Gray. Clubrush.
sylvaticus, Linn.
Eriophorum, Michx. Wool-grass.
Eriophorum, Linnæus. Cotton-grass.
polystachyon, Linn.
Fimbristylis, Vahl.
capillaris, Gray.
Rhynchospora, Vahl. Beak-Rush.
alba, Vahl.
Scleria, Linnæus. Nut-Rush.
triglomerata, Michx.

CAREX, Linnæus. Sedge-grass.
siccata, Dewey.
Muhlenbergii, Schk.
lagopodioides, Schk.
festucacea, Schk.
aquatilis, Wahl.
straminea, Schk.
Pennsylvanica, Lam.
Œderi, Ehrh.
lanuginosa, Michx.
lacustris, Willd.
hystricina, Willd.
tentaculata, Muhl.

GRAMINEÆ. THE GRASS FAMILY.

LEERSIA, Solander. White-grass.
oryzoides, Swartz. Rice Cut-grass.
Virginica, Willd.
lenticularis, Michx. Fly-catch Grass.
ZIZANIA, Gronovius. Wild Rice.
aquatica, Linn. Indian Rice; Water Oats.
ALOPECURUS, Linn. Fox-tail grass.
aristulatus, Michx. Water Fox-tail grass.
VILFA, Adanson. Rush-grass.
cuspidata, Torrey.
aspera, Beauv.
vaginæflora, Torrey.
SPROBOLUS R. Brown. Drop-seed grass.
junceus, Kunth.
heterolepis, Gray.
cryptandrus, Gray.
AGROSTIS, Linnæus. Bent-grass.
perennans, Tuckerm. Thin-grass.
vulgaris, Withering. Red-top.
CINNA, Linnæus. Wood Reed-grass.
arundinacea, Linn.
MUHLENBERGIA, Schreber.
sobolifera, Gray.
glomerata, Trin. Wild Red-top.
Mexicana, Trin.
sylvatica, Torr. and Gray.
Willdenovii, Trin.
BRACHYELYTRUM, Beauvois.
aristatum, Beauv.
CALAMAGROSTIS, Adanson. Reed Bent Grass.
Canadensis, Beauv. Blue joint.
confinis, Nutt.
coarctata, Torr.
longifolia, Hook.
ORYZOPSIS, Michaux. Mountain Rice.
melanocarpa, Muhl.
asperifolia, Michx.
Canadensis, Torr.
STIPA, Linnæus. Feathergrass.
spartea, Porcupine-grass.
ARISTIDA, Linnæus. Triple-awned Grass.
purpurascens, Poir.
tuberculosa, Nutt.
SPARTINA, Schreber. Cord-grass. Marsh-grass.
cynosuroides, Willd. Fresh water Cord-grass.
BOUTELOUA, Lagasca Muskit-Grass.
oligostachya, Torr.
hirsuta, Lagas.
curtipendula, Gray.

KŒLERIA, Persoon.
cristata, Pers.
GLYCERIA, R. Brown. Manna-grass.
Canadensis, Trin. Rattle-snake-grass.
nervata, Trin.
aquatica, Smith. Reed Meadow-grass.
fluitans, R. Brown.
POA, Linnæus. Spear-grass.
sylvestris, Gray.
serotina, Ehrh. False Red-top.
pratensis, Linn. Kentucky Blue Grass.
compressa, Linn. Blue Grass.
ERAGROSTIS, Beauvois.
reptans, Nees.
Frankii, Meyer.
capillaris, Nees.
pectinacea, Gray.
FESTUCA, Linnæus. Fesque-grass.
tenella, Willd.
ovina, Linn.
nutans, Willd.
BROMUS, Linnæus. Brome-grass.
Kalmii, Gray. Wild Chess.
ciliatus, Linn.
PHRAGMITES, Trinius. Reed.
communis, Trin.
TRITICUM, Linnæus. Wheat.
repens, Linn. Couch Grass.
caninum, Linn.
HORDEUM, Linnæus, Barley.
jubatum, Linn. Squirrel Tail Grass.
ELYMUS, Linnæus. Wild Rye.
Virginicus, Linn.
Canadensis, Linn.
striatus, Willd.
GYMNOSTICHUM, Schreber. Bottle-Brush Grass.
Hystrix, Schreb.
HIEROCHLOA, Gmelin. Holy Grass.
borealis, Roem and Schultes. Seneca Grass.
PHALARIS, Linnæus. Canary-grass.
arundinacea, Linn.
BECKMANNIA. Host.
cruciæformis. Host.
PANICUM, Linnæus. Panic-grass.
agrostoides, Spreng.
capillare, Linn.
autumnale, Bosc.
virgatum, Linn.
latifolium, Linn.
pauciflorum, Ell.
dichotomum, Linn.
depauperatum, Muhl.
Crus-galli, Linn. Barnyard Grass.
SETARIA, Beauvois. Bristly Foxtail Grass.
glauca, Beauv. Foxtail.
viridis, Beauv. Bottle Grass.
CENCHRUS, Linnæus. Bur Grass.
tribuloides, Linn. Sand-bur Grass.
ANDROPOGON. Linnæus. Beard Grass.
furcatus, Muhl.
scoparius, Michx.
SORGHUM, Persoon. Broom-Corn.
nutans, Gray. Indian Grass.

CLASS II. *Gymnospermæ.* (*Seeds naked.*)

CONIFERÆ. THE CONE-BEARING FAMILY.

PINUS, Tournefort. Pine.
Banksiana, Lamb. Northern Scrub Pine.
resinosa, Ait. Red Pine.
Strobus, Linn. White Pine.
ABIES, Tournefort. Spruce.
balsamea, Marshall. Balsam Fir.
Canadensis, Michx. Hemlock Spruce.
nigra, Poir. Black Spruce.
LARIX, Tournefort. Larch.
Americana, Michx. Tamarack.
JUNIPERUS, Linnæus. Juniper.
communis, Linn.
Virginiana, Linn. Red Cedar.
TAXUS, Tournefort. Yew.
baccata, Linn. Ground Hemlock.

SERIES II. SPORIFERÆ.

(Plants bearing spores, with no true embryos, and no cotyledons.)

CLASS I. *Angiosporæ.* (*Spores inclosed.*)

EQUISETACEÆ. THE HORSE-TAIL FAMILY.

EQUISETUM, Linnæus. Scouring Rush.
arvense, Linn.
sylvaticum, Linn.
limosum, Linn.
hyemale, Linn.
scirpoides, Michx.

FILICES. THE FERNS.

POLYPODIUM, Linnæus.
vulgare, Linn.
phegopteris, Linn.
dryopteris, Linn.
STRUTHIOPTERIS, Wildenow. Ostrich Fern.
Germanica, Willd.
ALLOSORUS, Bernhardi. Rock Brake.
gracilis, Presl.
atropurpureus, Gray.
PTERIS, Linnæus. Brake.
aquilina, Linn.
ADIANTUM, Linnæus. Maiden-hair.
pedatum, Linn.
CHEILANTHES, Swartz. Lip-Fern.
lanuginosa, Nutt. (C. vestata, Hook.)
COMPTOSORUS, Link. Walking-leaf.
rhizophyllus, Link.
ASPLENIUM, Linnæus. Spleen-wort.
thelypteroides, Michx.
Felix-fœmina, R. Br.
WOODSIA, R. Brown.
Ilvensis, R. Br.
CYSTOPTERIS, Bernhardi. Bladder-Fern.
bulbifera, Bernh.

ASPIDIUM, Swartz. Wood Fern.
Thelypteris, Swartz.
spinulosum, Swartz.
cristatum, Swartz.
fragrans, Swartz.
marginale, Swartz.
acrostichoides, Swartz.
OSMUNDA, Linnæus. Flowering Fern.
Claytoniana, Linn.
BOTRYCHIUM, Swartz. Moonwort.
lunarioides, Swartz.
Virginicum, Swartz.

LYCOPODIACÆ. THE CLUBMOSS FAMILY.

LYCOPODIUM, Linnæus. Clubmoss.
lucidulum, Michx.
annotinum, Linn.
dendroideum, Michx. Ground pine.
complanatum, Linn.
SELAGINELLA, Beauvois.
rupestris, Spring.

HYDROPTERIDES. THE WATER FERNS.

AZOLLA, Lamarck.
Caroliniana, Willd.

MUSCI. THE MOSSES.

SPHAGNUM, Dillenius. Peat-moss.
acutifolium, Ehrh.
DICRANUM, Hedwig.
undulatum, Turner.
scoparium, Linn.
flagellare, Hedw.
CERATODON, Bridel.
purpureus, Brid.
TRICHOSTOMUM, Bruch. and Schimper.
glaucescens. Hedw.
BARBULA, Hedwig.
mucronifolia, Br. and Sch.
TETRAPHIS, Hedwig.
pellucida, Hedw.
POLYTRICHUM, Bridel. Hair-cap Moss.
commune, Linn.
juniperinum, Hedw.
piliferum, Schreb.
BRYUM, Bruch. and Schimper.
cæspiticium, Linn.
roseum, Schreb.
MNIUM, Bruch. and Schimper.
affine, Bland.
punctatum, Hedw.
cuspidatum, Hedw.
BARTRAMEA, Hedwig.
fontana, Brid.
FUMARIA, Schreber.
hygrometrica, Hedw.
PHYSCOMITRUM, Bridel.
pyriforme, Br. and Sch.

NECKERA, Hedw.
pennata, Hedw.
CLIMACIUM, Web. and Mohr. Tree Moss.
Americanum, Brid.
HYPNUM, Dillenius.
tamariscinum, Hedw.
gracile, Br. and Sch.
triquetrum, Linn.
uncinatum, Hedw.
crista-castrensis, Linn.
molluscum, Hedw.
Haldanianum, Grev.
pratense, Koch.
nitens, Schreb.
rutabulum, Linn.
polymorphum, Br. and Sch.

HEPATICÆ. LIVERWORTS.

MARCHANTIA, Linnæus. Brook Liverwort.
polymorpha, Linn.
TRICHOCOLEA, Nees.
Tomentella, Nees.
MASTIGOBRYUM, Nees.
trilobatum, Nees.

CLASS II. *Gymnosporæ.* (*Spores naked.*)

LICHENES.

USNEA, Dillenius.
barbata, Fr.
EVERNIA, Acharius.
jubata, Fr.
prunastri, Ach.
RAMALINA, Acharius.
calicaris, Fr.
CETRARIA, Acharius.
ciliaris, Ach.
PELTIGERA, Hoffman.
rufescens, Hoffm.
PARMELIA, Acharius.
tiliacea, Ach.
caperata, Ach.
conspersa, Ach.
parietina, Fr.
chrysophtalma, Ach.
stellaris, Waltr.
obscura, Fr.
cerina, Ach.
CLADONIA, Hoffmann.
cæspiticia, Floerk.
pyxidata, Fr.
rangiferina, Hoffm. Reindeer Moss.
Floerkiana, Fr.
BIATORA, Fries.
Tuckermani, Fr.
UMBILICARIA, Hoffmann.
Muhlenbergii, Ach. Tripe de Roche.